

Disinfection Waiver

- ◆ Whole Body Contact Recreation is an existing or designated use (WBCR)
- ◆ Effluent limitations for fecal coliform or other applicable bacteria (*E. coli*) may be waived if:
 - “...the owner or operator of the wastewater treatment facility can demonstrate that neither health nor water quality will be endangered by failure to disinfect.”
- ◆ Demonstration must show that effluent concentrations during the recreational season (April 1 - October 31) do not violate the water quality standard which is designed to be protective of human health

Disinfection Waiver - Data Requirements

- ◆ Effluent concentrations during the recreational season
 - Minimum monitoring frequency of once/week
 - Grab sample must be taken at peak discharge on the day sample is taken
- ◆ Mixing Considerations
 - Low-flow conditions
 - Mixing zone volume of flow during low-flow conditions
- ◆ Determination of reasonable potential
 - Effluent variability and mixing considerations
 - “Technical Support Document For Water Quality-based Toxics Control” (EPA/505/2-90-001, Section 3.3.2)

Disinfection Waiver - Demonstration

- ◆ Instantaneous mixing of effluent concentration from reasonable potential analysis with applicable mixing zone volume of flow during low-flow conditions
- ◆ If resulting instream concentration is less than applicable bacteria standard, department may grant a disinfection waiver
- ◆ Disinfection waiver must be renewed at each operating permit renewal